



MATERIAL SAFETY DATA SHEET

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Issue Date:

1- Chemical Product Information and Company Identification.

Product Name: : Isopropyl amine reference standard, Anstan[®].
Synonym: : 2-Aminopropane.
Product code: : BS14386.
CAS Number: : 75-31-0.
Company Name: : Briti Scientific.
Company Address: : Plot No:78/B/13, SY-79,Phase-VI, Jeedimetla,Hyderabad-500 055.
Telangana, India.

Section 2- Composition / Information on Ingredients.

CAS No.	Chemical Name	Mol. Formula
75-31-0.	2-Aminopropane.	C ₃ H ₉ N.

Section 3- Hazards Identification.

Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids: Category 1
Corrosive to metals: Category 1
Acute oral toxicity: Category 3
Acute dermal toxicity: Category 3
Acute Inhalation Toxicity – Vapors: Category 3
Skin Corrosion/Irritation: Category 1 A
Serious Eye Damage/Eye Irritation: Category 1
Specific target organ toxicity (single exposure): Category 3
Target Organs - Respiratory system.

Label Elements

Signal Word

Danger

Hazard Statements

Extremely flammable liquid and vapor.
May be corrosive to metals.
Causes severe skin burns and eye damage.
May cause respiratory irritation.





Toxic if swallowed, in contact with skin or if inhaled.



Precautionary Statements

Prevention

- Wash face, hands and any exposed skin thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Use only outdoors or in a well-ventilated area.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Keep container tightly closed.
- Ground/bond container and receiving equipment.
- Use explosion-proof electrical/ventilating/lighting equipment.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Keep only in original container.
- Keep cool.

Response

Immediately call a POISON CENTER or doctor/physician.

Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin

Wash contaminated clothing before reuse.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Ingestion.

Rinse mouth

Do NOT induce vomiting.

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction.

Spills

Absorb spillage to prevent material damage.

Storage

Store locked up.





Store in a well-ventilated place. Keep container tightly closed.
Store in corrosive resistant polypropylene container with a resistant in liner.
Store in a dry place.

Disposal

Dispose of contents/container to an approved waste disposal.

Hazards not otherwise classified (HNOC)

None identified

Section 4- First Aid Measures.

General Advice: Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur.

Skin Contact: Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.

Ingestion: Do NOT induce vomiting. Get medical attention.

Most important symptoms and effects: Difficulty in breathing. Causes burns by all exposure routes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Notes to Physician: Treat symptomatically.

Section 5- Fire Fighting Measures.

Suitable Extinguishing Media: Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam, Water mist maybe used to cool closed containers.

Unsuitable Extinguishing Media: No information available.

Flash Point: -37°C / -34.6°F.

Method - No information available.

Autoignition Temperature: 400°C / 752°F.

Explosion Limits:

Upper 10.4%

Lower 2.0%

Sensitivity to Mechanical Impact: No information available.

Sensitivity to Static Discharge: No information available.

Specific Hazards Arising from the Chemical: Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Extremely





flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Nitrogen oxides (NO_x). Carbon monoxide (CO). Carbon dioxide (CO₂), Ammonia, nitriles. Thermal decomposition can lead to release of irritating gases and vapors.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

Health	Flammability	Instability	Physical hazards
3	4	0	N/A

Section 6- Accidental Release Measures.

Personal Precautions: Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.

Environmental Precautions: Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Up:

Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

Section 7- Handling and Storage.

Handling: Use only under a chemical fume hood. Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use spark-proof tools and explosion-proof equipment. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Corrosives area. Keep away from heat, sparks and flame. Do not store in metal containers. Incompatible Materials. Acids, Strong oxidizing agents, Metals, copper, Aluminium, Lead, Acid anhydrides, Acid chlorides.

Section 8- Exposure Control/Personal Protection.

Exposure Guidelines:

Component: Isopropylamine.

ACGIH TLV: TWA: 2 ppm

STEL: 5 ppm, Skin.

OSHA PEL: (Vacated) TWA: 5 ppm.

(Vacated) TWA: 12 mg/m³

(Vacated) STEL: 10 ppm.





(Vacated) STEL: 24 mg/m³

TWA: 5 ppm.

TWA: 12 mg/m³

NIOSH IDLH: IDLH: 750 ppm.

Mexico OEL (TWA):

TWA: 5 ppm.

STEL: 10 ppm.

Engineering Measures: Ensure adequate ventilation, especially in confined areas. Ensure that eye wash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment.

Personal Protective Equipment

Eye/face Protection: Tight sealing safety goggles. Face protection shield.

Skin and body protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures:

Handle in accordance with good industrial hygiene and safety practice.

Section 9- Physical and Chemical Properties.

Appearance: Colorless to Almost colorless clear liquid.

Odor: Ammonia-like.

Odor Threshold: No information available.

pH: No information available.

Melting Point/Range: -95 °C.

Boiling Point/Range: 34 °C.

Flash Point: -37 °C / -34.6 °F.

Evaporation Rate: No information available.

Flammability (solid,gas): Not applicable.

Flammability or explosive limits:

Upper 10.4%

Lower 2.0%

Vapor Pressure: No information available.

Density: 0.69 g/cm³.

Solubility: Soluble in water.

Partition coefficient; n-octanol/water: No data available.

Autoignition Temperature: 400 °C / 752 °F

Decomposition Temperature: No data available.

Viscosity: No data available.





Molecular: C₃H₉N.
Molecular Weight: 59.11 g/mol.

Section 10- Stability and Reactivity.

Reactive Hazard: None known, based on information available.

Stability: Stable under normal conditions.

Conditions to Avoid: Incompatible products. Keep away from open flames, hot surfaces and sources of ignition

Incompatible Materials: Acids, Strong oxidizing agents, Metals, copper, Aluminium, Lead, Acid anhydrides, Acid chlorides.

Hazardous Decomposition Products: Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂), Ammonia, nitriles, Thermal decomposition can lead to release of irritating gases and vapors.

Hazardous Polymerization: Hazardous polymerization does not occur.

Hazardous Reactions: None under normal processing.

Section 11- Toxicological Information.

Acute Toxicity

Product Information: No acute toxicity information is available for this product.

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropylamine	122 mg/kg (Rat) 170 mg/kg (Rat)	>400 mg/kg (Rabbit)	8.7 mg/L/4h (Rat)

Toxicologically Synergistic Products: No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation: Causes burns by all exposure routes.

Sensitization: No information available.

Mutagenic Effects: No information available.

Reproductive Effects: No information available.

Developmental Effects: No information available.

Teratogenicity: No information available.

STOT - single exposure- Respiratory system.

STOT - repeated exposure- None known.

Aspiration hazard: No information available.

Symptoms / effects, both acute and delayed: Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting: Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

Endocrine Disruptor Information: No information available.

Other Adverse Effects The toxicological properties have not been fully investigated.





Section 12- Ecological Information.

Ecotoxicity: Toxic to aquatic organisms.

Persistence and Degradability: Persistence is unlikely based on information available.

Bioaccumulation/ Accumulation: No information available.

Mobility: Will likely be mobile in the environment due to its volatility.

Section 13- Disposal Considerations.

Waste Disposal Methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

Section 14- Transport Information.

DOT

UN-No: UN1221
Proper Shipping Name: ISOPROPYLAMINE
Hazard Class: 3
Subsidiary Hazard Class: 8
Packing Group: I

TDG

UN-No: UN1221
Proper Shipping Name: ISOPROPYLAMINE
Hazard Class: 3
Subsidiary Hazard Class: 8
Packing Group: I

IATA

UN-No: UN1221
Proper Shipping Name: ISOPROPYLAMINE
Hazard Class: 3
Subsidiary Hazard Class: 8
Packing Group: I

IMDG/IMO

UN-No: UN1221
Proper Shipping Name: ISOPROPYLAMINE
Hazard Class: 3
Subsidiary Hazard Class: 8
Packing Group: I





Section 15- Regulatory Information.

Legend:

TSCA - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA 12(b) - Notices of Export: Not applicable.

U.S. Federal Regulations

SARA 313: Not applicable.

SARA 311/312 Hazard Categories See section 2 for more information.

CWA (Clean Water Act): Not applicable.

Clean Air Act: Not applicable.

OSHA - Occupational Safety and Health Administration: Not applicable.

CERCLA: Not applicable.

California Proposition 65: This product does not contain any Proposition 65 chemicals.

Section 16- Other Information.

Briti Scientific provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

